

ABSTRACT

A display having a second substrate with a phosphor layer formed on the surface and a first substrate disposed opposing to the first substrate and having electron guns formed thereon, said electron guns having a structure of: first conductive film laminated on the first substrate - insulating film - second conductive film, and said insulating film being one formed by anodizing the first conductive film by using a non-aqueous electrolyte containing an organic solvent such as a compound having an alcoholic hydroxyl group and at least one solute selected from salts of inorganic oxo acids and salts of organic carboxylic acids. According to this device, the quality of the insulating film forming the tunneling insulator of electron guns of the MIM diode structure is improved to prolong the service life of the device.